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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/514,338	02/28/2000	Jun Tanabe	00724/P11-225315/AM/CUB/	U 8391
759	90 02/07/2002			•
Wenderoth Lind and Ponack			EXAMINER	
2033 K street N.W. SUITE 800			KIM, CHONG HWA	
Washington, DC	20006		ART UNIT	PAPER NUMBER
			3682	<u>-</u>
			DATE MAILED: 02/07/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)	
•	-	09/514,338	TANABE ET AL.	
Office Action Summary		Examiner	Art Unit	
		Chong H. Kim	3682	
	The MAILING DATE of this communication ap		sheet with the correspondence address	
Period fo			IDE AMONITU(S) EDOM	
THE II - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing digital patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, howev ply within the statutory minir I will apply and will expire S te. cause the application to	rer, may a reply be timely filed num of thirty (30) days will be considered timely. IX (6) MONTHS from the mailing date of this communicati become ABANDONED (35 U.S.C. § 133).	ion.
Status 1)⊠	Responsive to communication(s) filed on <u>07</u>	January 2002 .		
·	·	his action is non-fir	ial.	
2a)⊠	Since this application is in condition for allow			s is
3)□	closed in accordance with the practice unde	r Ex parte Quayle,	1935 C.D. 11, 453 O.G. 213.	
Dispositi	on of Claims	•		
4)⊠	Claim(s) 15-28 is/are pending in the applicat	ion.		
	4a) Of the above claim(s) is/are withdr	awn from considera	ition.	
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) 15-28 is/are rejected.			
7)	Claim(s) is/are objected to.			
8)[Claim(s) are subject to restriction and	or election requirer	nent.	
Applicat	on Papers		•	
, —	The specification is objected to by the Examir			
10)	The drawing(s) filed on is/are: a)□ acc			
	Applicant may not request that any objection to t			
11)	The proposed drawing correction filed on			
	If approved, corrected drawings are required in the		ion.	
•	The oath or declaration is objected to by the E	<u>-xaminer.</u>		
_	under 35 U.S.C. §§ 119 and 120		110000140(5)(4) (9)	
-	Acknowledgment is made of a claim for forei	gn priority under 35	U.S.C. § 119(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority docume			
	2. Certified copies of the priority docume			
* (3. Copies of the certified copies of the pr application from the International E See the attached detailed Office action for a list	Bureau (PCT Rule 1	7.2(a)).	
14)□ /	Acknowledgment is made of a claim for dome:	stic priority under 3	5 U.S.C. § 119(e) (to a provisional applic	ation).
l a	a) The translation of the foreign language parts of of the foreign languag	provisional application	on has been received.	
Attachmer				
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4)	Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) Other:	

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DETAILED ACTION

The Examiner acknowledges the Applicant's Amendment filed Jan 7, 2002 in response to the Office action made on Jul 6, 2001 and canceling of claims 1-14.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 15-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakada et al., U.S. Patent 5,792,302 in view of Nishibori, U.S. Patent 4,505,869, in view of Young, Jr. et al., U.S. Patent 3,802,291, in view of Cho, U.S. Patent 6,214,154 B1, and in view of Uchida, U.S. Patent 4,581,954.

Nakada et al. shows, in Figs. 1-5, a steering wheel comprising; an annular rim 1a including;

a core 2;

arcuate rim elements 3, 4 mounted on the core 2;

a boss section (in the middle of the spoke section 1b) and a spoke section 1b, the annular rim section 1a being connected to the boss section by the spoke section 1b;

wherein the arcuate rim elements include a front-side rim element having a central longitudinal groove 13, and include a rear-side rim element having a central longitudinal groove

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13, the core 2 being fit into the central longitudinal groove 13 of each of the front-side rime element and the rear-side rim element so as to mount the rim elements 3, 4 on the core 2 (as shown in Figs. 3-6);

wherein the arcuate rim elements include an outer-side rim element having a central longitudinal groove 13, and include an inner-side rim element having a central longitudinal groove 13, the core 2 being fit into the central longitudinal groove 13 of each of the outer-side rime element and the inner-side rim element so as to mount the rim elements 3, 4 on the core 2 (as shown in Figs. 3-6);

a coating covering the arcuate rim elements 2, 4 (as described in column 9, lines 31-5); and

wherein the annular rim section further includes a grip portion 25 formed of flexible urethane and mounted on the core 2 (as described in column 8, lines 56-61 and in column 7, lines 9-11);

but fails to show the rim elements being formed of thermosoftening synthetic material blended with woodmeal so as to form an annular streak pattern on an outer surface thereof and a color pigment blended therein to show different colors wherein the rim section has surface unevenness; a cover member mounted on the seam; the protective coating covering only the front-side portion of the arcuate rim element; a transfer print on a front-side of the annular rim section; and the arcuate rim elements having a first rim having a notch for receiving the core and a second rim having a substantially equal thickness to the diameter of the core to be fitted in the notch.

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As to the matter of the thermosoftening synthetic material blended with the woodmeal and the color pigment, Nishibori teaches, in column 1, lines 45-49, lines 61-65, a material that is made of a thermosoftening synthetic resin (thermoplastic resin) blended with woodmeal (or wood chips as mentioned in column 2, line 51) so as to form an annular streak pattern on an outer surface and wherein a color pigment is blended therein such that the annular streak pattern on the outer surface includes annular streaks of different color, as described in column 3, lines 56-58, and the surface has surface unevenness.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the steering wheel rim section made of wood of Nakada et al. with the material being made of thermosoftening synthetic resin including woodmeal and color pigment of Nishibori in order to provide a "surface characteristics identical with those of wood in actual use, color, touch, finish coating, adhesion, laminating, etc." when real wood is difficult to obtain and expensive so that the cost can be reduced and the availability can be increased.

As to the matter of the cover member mounted on the seam, Young, Jr. et al. shows, in Fig. 3, a steering wheel comprising a seam wherein a cover 106 is mounted on the seam.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to apply the cover as taught by Young, Jr. et al. on the seam of Nakada et al. in order to provide a more pleasing design so that the value of the product is maintained.

As to the matter of the protective coating covering only the front-side portion of the arcuate rim element, it would have been obvious to modify protective coating of Nakada et al. by having the protective coating covering only the front-side portion of the arcuate rim element, since applicant has not disclosed that having the protective coating covering only the front-side

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portion of the arcuate rim element solves any stated problem or is for any particular purpose and it appears that the protective coating would perform equally well by covering other parts of the rim.

As to the matter of the transfer print on a front-side of the annular rim section, Cho discloses, in column 1, lines 30-47, a steering wheel comprising transfer print on a front-side of the annular rim section.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the rim of Nakada et al. with the transfer print of Cho in order to provide a more "accurate and clear match of pattern on a steering wheel" as described in column 1, lines 36-47, by Cho.

As to the matter of the arcuate rim elements having a first rim having a notch for receiving the core and a second rim having a substantially equal thickness to the diameter of the core to be fitted in the notch, Uchida shows, in Fig. 5, a steering wheel comprising an arcuate rim elements 10' include a first rim element 11 having a longitudinal notch formed therein for receiving the core 7, and a second rim element 114 having a thickness (near the core 7) substantially equal to a diameter of the core 7 and being fitted into the notch of the first rim element 11 after the core.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the two halves of Nakada et al. with the cover assembly of Uchida in order to provide a more securely engaged mechanism so that the steering wheel would last longer.

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Response to Arguments

3. Applicant's arguments with respect to the Zeller reference have been considered but are moot in view of the new ground(s) of rejection.

In response to applicant's argument that Nishibori "does not disclose or suggest the rim 4. elements are formed of thermosoftening synthetic resin material blended with woodmeal so as to form an annular streak pattern on an outer surface of each of the rim elements", it is noted above that Nishibori teaches, in column 1, lines 45-49, lines 61-65, a material that is made of a thermosoftening synthetic resin (thermoplastic resin as disclosed by Nishibori is thermosoftening synthetic resin) blended with woodmeal (or wood chips as mentioned in column 2, line 51) so as to form an annular streak pattern on an outer surface and wherein a color pigment is blended therein such that the annular streak pattern on the outer surface includes annular streaks of different color, as described in column 3, lines 56-58. Nishibori further describes that the molded product is provided with "surface characteristics identical with those of wood in actual use, color, touch, finish coating, adhesion, laminating, etc." From above disclosure, it is suggested to one of ordinary skill in the art that the molded product has the annular streak pattern on the outer surface to resemble wood. The natural wood possesses the characteristics having streaks of different colors and unevenness on the surface due to the wood fibers. Therefore, if Nishibori discloses that the molded product has the characteristics identical with those of wood in actual use, color, touch, etc, then it is inherent that the molded product must possess the characteristics having the streaks having different colors.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Steering wheel having multiple rim sections for receiving core member.

Futschik et al., U.S. Patent 6,012,354

Endo et al., JP Patent 63176772 A

Iuchi, U.S. Patent 4,800,775

Product related to transfer printing method.

Manabe et al., JP Patent 58191187 A

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chong H. Kim whose telephone number is (703) 305-0922. The examiner can normally be reached on Monday - Friday; 9:00 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Bucci can be reached on (703) 308-3668. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

Chong H. Kim.

Patent Examiner

February 5, 2002